

# **Site Integration and Infrastructure**

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## OVERVIEW

Site Integration and Infrastructure consists of Project Baseline Summary (PBS) Safeguards and Security (PBS RL-SS-D); Hazardous Materials Management and Emergency Response (HAMMER PBS RL-SS05) and Site Systems and Regulatory Analysis (PBS RL-SS01). PBS SS01 contains three sub-projects:

- Planning and Integration;
- Environmental Compliance Program; and
- Systems Engineering and Integration.

The HAMMER work scope was transferred from PBS RL-SS01 to RL-SS05 at the end of May, 2003, per May 2, 2003, direction from RL.

NOTE: Unless otherwise noted, all information contained herein is as of the end of May 2003.

## NOTABLE ACCOMPLISHMENTS

### Safeguards and Security (SAS) (PBS RL-SS-D)

**Heightened Security Posture:** On May 20, 2003, the Secretary of Energy directed all DOE facilities to implement Security Condition (SECON) 2 operations. SAS immediately implemented SECON 2 measures and maintained that status for eleven days without incident. At RL direction, SAS moved back to SECON 3 status on May 30, 2003.

**Productivity Enhancement for Waste Receiving And Packaging (WRAP):** SAS reviewed the WRAP process for preparing Pipe Overpack Containers (POC) for termination of safeguards and ultimate shipment to the Waste Isolation Pilot Project. The risk-based review resulted in the elimination of an unnecessary, time-consuming "bolt shearing" step that was inadvertently carried over from POC safeguards termination requirements at the Rocky Flats Environmental Technology Site.

**Safe Secure Transport (SST) Protection:** In anticipation of the accelerated de-inventory of the Plutonium Finishing Plant, SAS reviewed and validated the protection afforded RL SST vehicles when they are temporarily staged at Hanford. A report and recommendations were provided to RL.

### HAMMER (PBS RL-SS05)

**Hanford Site Training at HAMMER:** HAMMER's first priority is to deliver hands-on training to the Hanford workforce. During May, 146 classes were conducted for a total of 2,158 Hanford site student days. Highest attended health and safety classes included Hazardous Waste Operations, Respiratory Protection, Radiation Worker II Requalification, Basic Medic First Aid training, and Hanford Fire Department training. Overall satisfaction ratings (rated on a scale from one through four) for the month of May were Course Content 3.9, Instructors 4.0, and Facility 3.8.

**Brokered Classes:** HAMMER brokered or facilitated facility-specific, site-specific and multi-contractor training covering 16 topics provided via 26 sessions. The topics covered included Operational Readiness Review for the DOE-RL, Tank Farms Continuing Training for CH2M HILL; Radiation Control Technician Continuing Training, Leadership Essentials III, and Supply Chain Process for FH; Supervisory Control and Data Acquisition Training for Pacific Northwest National Laboratories (PNNL); and Intro to Transportation Safety for Duratek Federal Services. Multi-contractor training was also provided on Resolving Differences, Fiber Optics, Condensation Induced Water Hammer, and How to Have Quick and Effective Meetings.

## **NOTABLE ACCOMPLISHMENTS, CONTINUED**

**Occupational Safety and Health Administration (OSHA) Training Partnership:** OSHA Training Institute provided training on Fall Arrest Systems at the HAMMER campus. The four-day course provided an overview of state-of-the-art technology for Fall Protection and the current OSHA requirements.

**Award Received:** The Environmental and Waste Management Program Manager and HAMMER Director attended on behalf of HAMMER an award ceremony in Seattle on May 15, 2003, to receive the State of Washington's Distinguished State Historic Preservation Officer's Award for Outstanding Achievement in Education. A similar award was presented to the Cultural Resource Protection Program of the Confederated Tribes of the Umatilla Indian Reservation (CTUIR), HAMMER's partner in education regarding managing and protecting cultural resources on government land. The HAMMER/CTUIR educational programs are a cornerstone of positive relationships between the Hanford Site and regional tribal nations, playing an important role in Hanford's compliance with federal cultural resource laws.

### **Planning and Integration (P&I) (PBS RL-SS01)**

**FH Life-cycle Re-baseline:** Support continued to sub-projects in development of their FH life-cycle baseline update due to RL on June 30, 2003. P&I continues to provide system administration including regular updates of baseline validation reports; validation team participation; development of the FH master (life-cycle) and critical path (contract period) schedules reflecting significant project activities and deliverables; and development of the electronic baseline displays including supporting data as requested by RL for this deliverable.

**April PHMC Performance Report:** The report was delivered to RL on May 27, 2003, and distributed to all addressees on May 30, 2003, five working days earlier than the FH due date of June 9, 2003.

### **Environmental Compliance Program (ECP) (PBS RL-SS01)**

**Air Operating Permit (AOP) Certification Report:** Tracked Deliverable ECP-03-403, RL-2003-03 AOP Annual Compliance Certification Report for the Period January 1 through December 31, 2002, was completed and transmitted to RL on May 27, 2003 (FH-0205909A R15). This submittal date is three days ahead of the approved ECP schedule.

**Hanford Site Toxic Chemical Release Inventory (TRI):** The draft calendar year 2002 TRI report was issued to major Hanford contractors and RL personnel for comment review on May 20, 2003, one week ahead of the interim task schedule. The final TRI report, Tracked Deliverable ECP-03-503, is due June 24, 2003.

**40 Code of Federal Regulations (CFR) 61 Subpart H Memorandum of Agreement (MOA):** FH is pursuing a MOA between the U.S. Environmental Protection Agency (EPA) Region 10, Washington State Department of Health (WDOH), and RL regarding implementing details of the new 40 CFR 61 subpart H radioactive air emissions stack sampling inspection and maintenance requirements. EPA Region 10 proposed the MOA after a February 19, 2003, meeting between RL, Office of River Protection (ORP), major Hanford contractors, WDOH and EPA. The MOA will document the EPA's expectation that RL must be in full compliance with the new requirements by December 31, 2003, or submit formal compliance agreements to the regulatory agencies. FH is preparing a memo to formally transmit the final draft MOA to RL.

## **NOTABLE ACCOMPLISHMENTS, CONTINUED**

**Resource Conservation and Recovery Act of 1976 (RCRA) Permit Renewal:** Meetings with RL, ORP, and major Hanford contractors are continuing on development of checklists for Parts IV and V units in the RCRA Permit. In addition, the group is evaluating non-Treatment, Storage and Disposal unit specific Permit attachments and determining whether the documentation requires any update for Permit Renewal. Updating Attachment 33, General Information Portion, RL-91-28 will be required for permit renewal.

**Asbestos and Demolition Clean Air Act Requirements Workshop:** A major Hanford contractor and RL training workshop was conducted. The focus of the workshop was to familiarize the attendees with the basic asbestos/demolition Clean Air Act requirements, as well as the recent issuance of the revised MOA with the Benton Clean Air Authority.

**Spill and Release Reporting:** Appropriate reporting responses were coordinated for five non-reportable releases. There was one reportable event with no release to the environment reported to the regulatory agencies through the Occurrence Notification Center (ONC).

### **Systems Engineering and Integration (SEI) (PBS RL-SS01)**

**FH Life-cycle Re-baseline:** Work continued with the FH sub-projects in support of the FH Life-cycle Re-baseline deliverable.

- Produced Work Breakdown Structure (WBS) dictionaries from the Hanford Site Technical Database and provided them to the FH sub-projects for review and comment. Changes were made to the format of the WBS dictionaries to clearly identify buildings, waste sites, Gold Metrics, and WBS interfaces.
- Completed Business Risk Management Framework (BRMF) analyses for selected FH sub-projects and provided results to the FH sub-projects for incorporation into the FH Life-cycle Re-baseline. Performed BRMF analysis on the infrastructure reliability projects and provided the results to Site Services management.
- Worked with RL, PNNL and FH sub-projects to align life-cycle planning for buildings consistent with the RL Baseline Update Guidance. As a result of this effort, an apparent duplication for the Central Landfill Closure was discovered and corrected.
- Supported the cesium and strontium capsule re-location project in developing the functions and requirements.
- Established a contract task for value engineering analysis for the 233-S Plutonium Concentration Facility.
- Performed a technical analysis of the sub-project basis-of-estimate narratives and provided comments to the cost estimate lead.

**Project Hanford Management Contract:** Work continued to support efforts for Prime Contract Management and Integration:

- Two Interface Control Documents (ICDs) were approved in May. One was a modified ICD for the 242-A Evaporator and the Liquid Effluent Retention Facility based on the scope transfer to CH2M HILL Hanford Group, Inc. (CH2M HILL). The other dealt with the CH2M HILL Project W-464 and the Canister Storage Building Operations.
- Worked with RL and the FH sub-projects to resolve RL comments on the FH March 19, 2003, Government Furnished Services/Items transmittal letter.
- Supported the scope transfer efforts from FH to CH2M HILL.

## NOTABLE ACCOMPLISHMENTS, CONTINUED

**FY 2003 Baseline Management:** Work continued to support FY 2003 baseline management efforts:

- Evaluated impacts to the FH baseline from the rule changes for Pit 9. Changes in the Washington Administrative Code will impact operation and use of Pit 9, which is currently used by site contractors (including the Waste Treatment and Immobilization Plant) for disposal of construction/demolition debris and inert waste. It is expected that FH can get approval to continue using Pit 9 for disposal of inert waste (brick, concrete, etc.) but an alternate location will be needed for disposal of building construction/demolition rubble (wood, asphalt, etc.) beginning in February 2004. Alternatives include disposal at the Environmental Restoration Disposal Facility, offsite, or in a new onsite landfill designed and permitted for this purpose. A new onsite landfill may be the low-cost alternative.
- Gathered facility data to support life-cycle analysis for building rubble and demolition debris that will be generated during facility disposition activities.

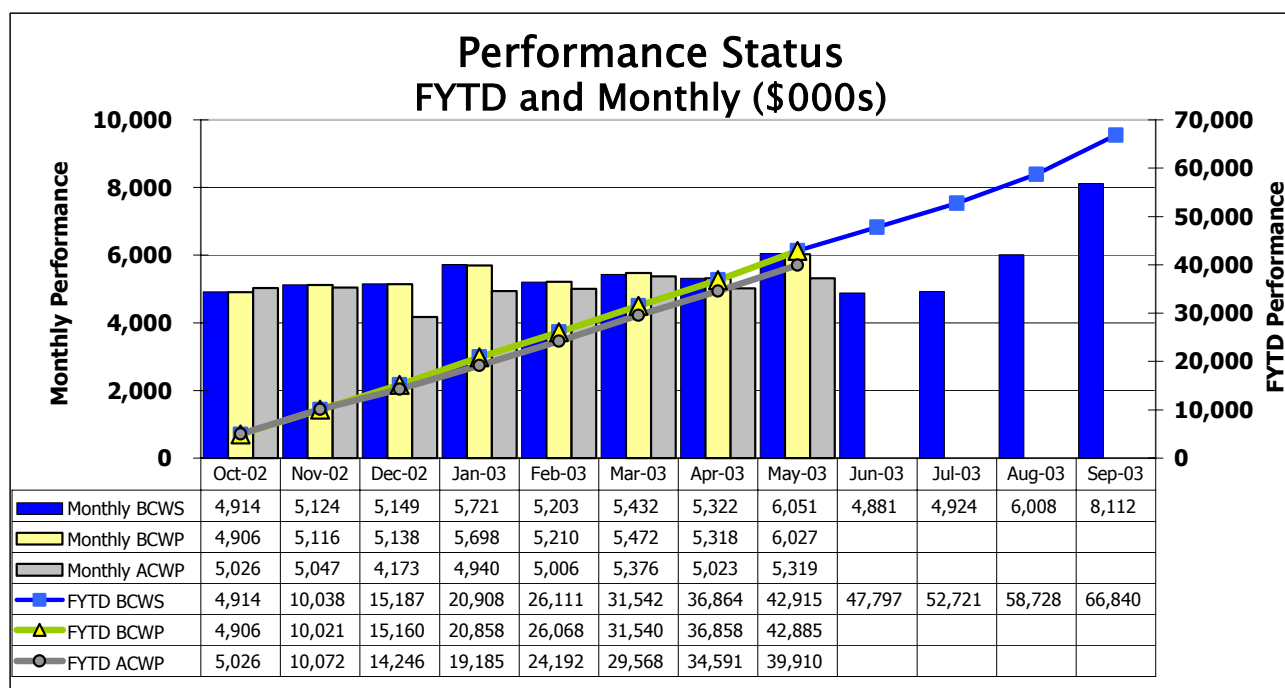
## FY03 SCHEDULE/COST PERFORMANCE (\$000)

**Schedule Performance:** The schedule performance variance for all three PBSs is within the established +/- 10 percent or \$1M threshold, therefore no variance analysis is provided.

**Cost Performance:** The cost variance for PBSs SS-D and SS05 is within the established +/- 10 percent or \$1M threshold, therefore no variance analysis is provided. PBS SS-01's positive cost performance variance of 24% (\$2,456K) is mainly due to prior spending restraints during continuing resolution. Now that continuing resolution has ended, equipment and service contracts are being let. Also included in the variance is an over-liquidation due to revenue for site services being planned at 32.4% while it is presently being generated at 34.7%. This over-liquidation could result in a potential favorable refund to customers and/or a reduction in billing rates.

	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
<b>RL-SS-D Safeguards &amp; Security</b>	29,258	29,258	28,873	0	0%	385	1%	44,407
<b>RL-SS05 HAMMER</b>	3,289	3,259	3,125	-30	-1%	134	4%	4,933
<b>RL-SS01 Site Systems &amp; Regulatory Analysis</b>	10,368	10,368	7,913	0	0%	2,456	24%	17,500
<b>Other Direct PBSs</b>	<b>42,915</b>	<b>42,885</b>	<b>39,910</b>	<b>-30</b>	<b>0%</b>	<b>2,975</b>	<b>7%</b>	<b>66,840</b>

## FY03 SCHEDULE/COST PERFORMANCE, CONTINUED



## FY 2003 FH FUNDS VS FORECAST (\$000)

	Expected Funds	Spend Forecast	Variance
RL-SS01 Site Integration	15,253	15,253	0
RL-SS05 HAMMER	4,938	4,914	24
<b>Post 2006 - Operating</b>	<b>\$ 20,191</b>	<b>\$ 20,167</b>	<b>\$ 24</b>
RL-SS-D Safeguards & Security	47,982	44,600	3,382
<b>Safeguards &amp; Security</b>	<b>\$ 47,982</b>	<b>\$ 44,600</b>	<b>\$ 3,382</b>